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July 30, 2021

John Hopkins
Remedial Project Manager
Land and Chemicals Division
USEPA Region III
1650 Arch Street (3LC10)
Philadelphia, PA 19103

Subject: **Semi-Annual Project Progress Report: January – June 2021**
RCRA Corrective Action Permit MDD046279311
Former Appliance Park East Facility
Columbia, Maryland

Dear Mr. Hopkins:

Please find attached the Semi-Annual Project Progress Report for the former Appliance Park East facility in Columbia, Maryland. This report covers the period from January 1 to June 30, 2021 and is submitted by the General Electric Company (GE) pursuant to Condition II.C of the above-referenced permit, as modified by the United States Environmental Protection Agency (EPA).

As required by Condition I.B.9 of the above-referenced permit, I certify under penalty of law that the enclosed report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact me or Belssi Chang Lee of Tetra Tech at (410) 990-4607 if you have any questions regarding the attached report.

Sincerely,

A handwritten signature in blue ink that reads "Kevin Mooney".

Kevin Mooney
Senior Project Manager
GE Global Operations - Environment, Health & Safety

Attachment

cc: Belssi Chang Lee, Tetra Tech (via email)
 Ed Hammerberg, MDE (via email)
 Curt Lebak, RREEF (via email)
 Bill Rowe, Howard Hughes Corporation (via email)

SEMI-ANNUAL PROJECT PROGRESS REPORT

RCRA CORRECTIVE ACTION PERMIT (PERMIT)

Permittee: General Electric Company (GE)

Permit Number: MDD046279311

Prepared for GE Global Operations – Environmental Remediation
1 Plastics Avenue
Pittsfield, Massachusetts 01201

Prepared By: Tetra Tech, Inc. (Tetra Tech)
980 Awald Road, Suite 302
Annapolis, Maryland 21403

Date: July 30, 2021

Report Period: January 1, 2021 to June 30, 2021

Copies: Maryland Department of the Environment (MDE)
RREEF Engineering
The Howard Hughes Corporation

1. Progress Made This Period

Volatile Organic Compounds (VOCs) in Soil and Groundwater Beneath and Around the Former Manufacturing Building - RCRA Facility Investigation (RFI) Unit 2

The Parcel A-10 pump-and-treat system was operational over the last six months except as noted in the monthly monitoring reports submitted to the United States Environmental Protection Agency (EPA) for this reporting period (i.e., January through June 2021). Attachment 1 includes summary tables and figures showing the site plan and performance monitoring results for the pump-and-treat system.

A groundwater monitoring event was conducted in May-June 2021 in accordance with the approved SAP dated May 4, 2011; the report (Tetra Tech, 2021) was previously submitted to EPA. Attachment 1 includes a summary of the results including groundwater elevation data, groundwater elevation contour maps for the saprolite and bedrock units, and summary of analytical results. The groundwater samples were collected using passive diffusion bags which were deployed on May 4, 2021 and retrieved on June 3, 2021 to collect the samples. The samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260. The groundwater analytical results are summarized in Table 2; historical TCE analytical results are presented in Table 3. The highest trichloroethene (TCE) concentration detected during the May-June 2021

sampling event was 90,500 µg/L in the sample collected from monitoring well 2TP-10. This concentration is slightly lower than the concentrations detected in the previous two sampling events (107,000 and 116,000 µg/L in May 2020 and November 2019, respectively). As observed in Table 3 concentrations at 2TP-10 appear to have been increasing since 2017; the reason is unclear. Groundwater elevations at 2TP-10 and concentrations at the nearest/deeper well 2TP-11 have remained relatively stable for the past several years. The future sampling results from 2TP 10 will continue to be reviewed to determine if further steps are necessary.

Figures 9 and 10 illustrate the change in TCE concentrations since June 2000 at wells located within the plume core and at wells located at the plume toe and cross-gradient of the plume, respectivelyⁱ. The groundwater elevation and sample results from the May-June 2021 sampling event show that the hydraulic containment system continues to operate as intended. Specifically, VOC-impacted groundwater continues to be contained on Parcel A-10.

Warehouse Building Oil/Water Separator and Acid Neutralization Units - RFI Unit 6

The most recent 5-year monitoring event under the EPA-approved August 19, 2002 SAP was performed on November 17, 2017 (the prior 5-year monitoring event was conducted on November 29, 2012). Groundwater samples were collected from monitoring wells 6MW-1, 6MW-2, 6MW-3, and OBG-65. The groundwater monitoring results were presented in the report submitted to EPA on December 11, 2017 (Tetra Tech, 2017). Attachment 2 includes a summary of the groundwater monitoring results including groundwater levels and the respective groundwater elevations (Table 1) and summary of analytical results (Table 2). VOCs were not detected in any of the groundwater samples except for 6MW-2, which is located at the former oil/water separator under the building. The groundwater elevation data and sample results show that the extent of VOC-affected groundwater remains within the footprint of the Warehouse Building.

Other Activities Conducted Pursuant to the Permit

The current RCRA Corrective Action Permit was issued by EPA for the facility with an effective date of November 3, 2012. In accordance with Part II.B.3 of the Permit, GE submitted an Institutional Control Plan (IC Plan) dated January 24, 2013 to EPA. By its email to GE, EPA approved the IC Plan on February 5, 2013. EPA approved the environmental covenants (ECs) for each of the properties subject to the IC Plan previously; however, following submittal of the signed ECs for parcels A-8, A-10 and A-15, MDE and EPA requested that the EC template be revised. An EC has been executed and recorded for Parcel A-8. GE is in communication with EPA regarding the ECs for the remaining parcels.

2. Problems Encountered During This Period

No problems were encountered during this period.

ⁱ Abnormalities in the trends shown on Figure 9 (2MW-11) and Figure 10 (S-2, S-4, 2MW-4) are due to non-detect results, which are considered to be anomalous based on the analytical results from subsequent sampling events.

3. Projected Work for the Next Reporting Period

VOCs in Soil and Groundwater Beneath and Around the Former Manufacturing Building - RFI Unit 2

The Parcel A-10 pump-and-treat system is expected to operate at full-scale through the next reporting period, with the exception of the operation of recovery well B-3 (which will be sampled again in June 2022 to monitor for rebound in VOC concentrations). The next groundwater monitoring event will be conducted in November 2021 in accordance with the SAP. Groundwater monitoring will include the monitoring wells on a semi-annual sampling frequency.

Warehouse Building Oil/Water Separator and Acid Neutralization Units - RFI Unit 6

The next monitoring event is scheduled for October/November 2022.

Other Activities to Be Conducted Pursuant to the Permit

As stated previously, GE is continuing work towards finalizing the ECs for each of the properties subject to the IC Plan. Once the ECs have been executed by all appropriate parties, the ECs will be recorded with the Howard County Land Records.

4. Changes in Personnel

There were no changes in personnel during this reporting period.

References

Tetra Tech, Inc. (Tetra Tech) 2017. *RFI Unit 6 Groundwater Monitoring Report, November 17 Sampling Event, RCRA Corrective Action Permit MDD046279311, Former Appliance Park East Facility, Columbia, Maryland*. December 11, 2017.

Tetra Tech, 2021. *Semi-Annual Groundwater Monitoring Report, May-June 2021 Sampling Event, RCRA Corrective Action Permit MDD046279311, CMS Units 2 and 7, Former Appliance Park East Facility, Columbia, Maryland*. July 9, 2021.

Attachments

Attachment 1: Findings Summary for Groundwater for RFI Units 2 and 7

Attachment 2: Findings Summary for Warehouse Building Oil/Water Separator and Acid Neutralization Units RFI Unit 6

ATTACHMENT 1

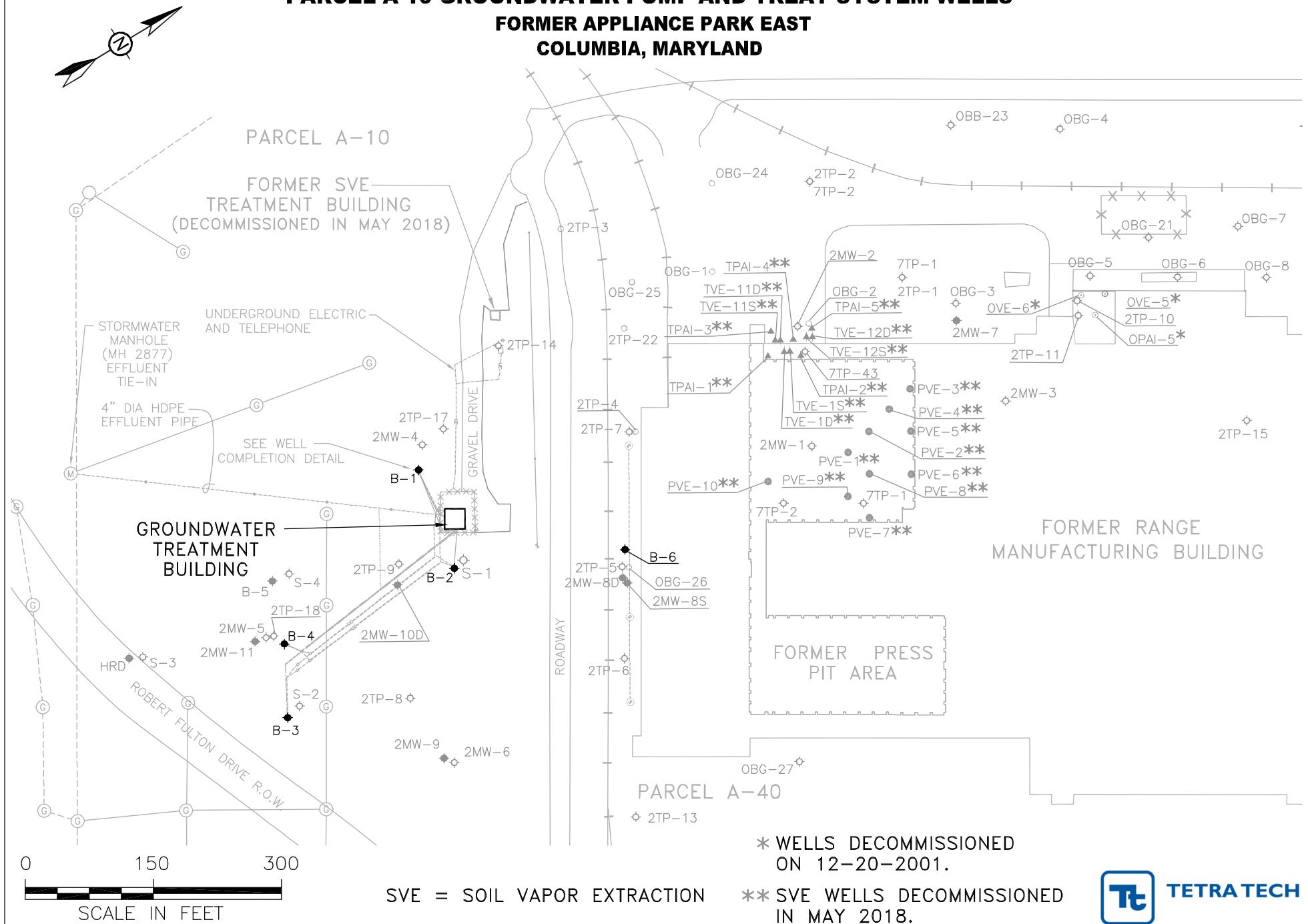
To Semi-Annual Project Progress Report
RCRA Corrective Action Permit
No. MDD046279311

General Electric Co.
Former Appliance Park East Facility
Columbia, MD

Period January 1, 2021 to June 30, 2021

Findings Summary for Groundwater for RFI Units 2 and 7

FIGURE 1
PARCEL A-10 GROUNDWATER PUMP AND TREAT SYSTEM WELLS
FORMER APPLIANCE PARK EAST
COLUMBIA, MARYLAND



SVE = SOIL VAPOR EXTRACTION

* WELLS DECOMMISSIONED
ON 12-20-2001

** SVE WELLS DECOMMISSIONED
IN MAY 2018.



Figure 2
Groundwater Pump-and-Treat System Recovery
Former Appliance Park East Facility, Columbia, Maryland

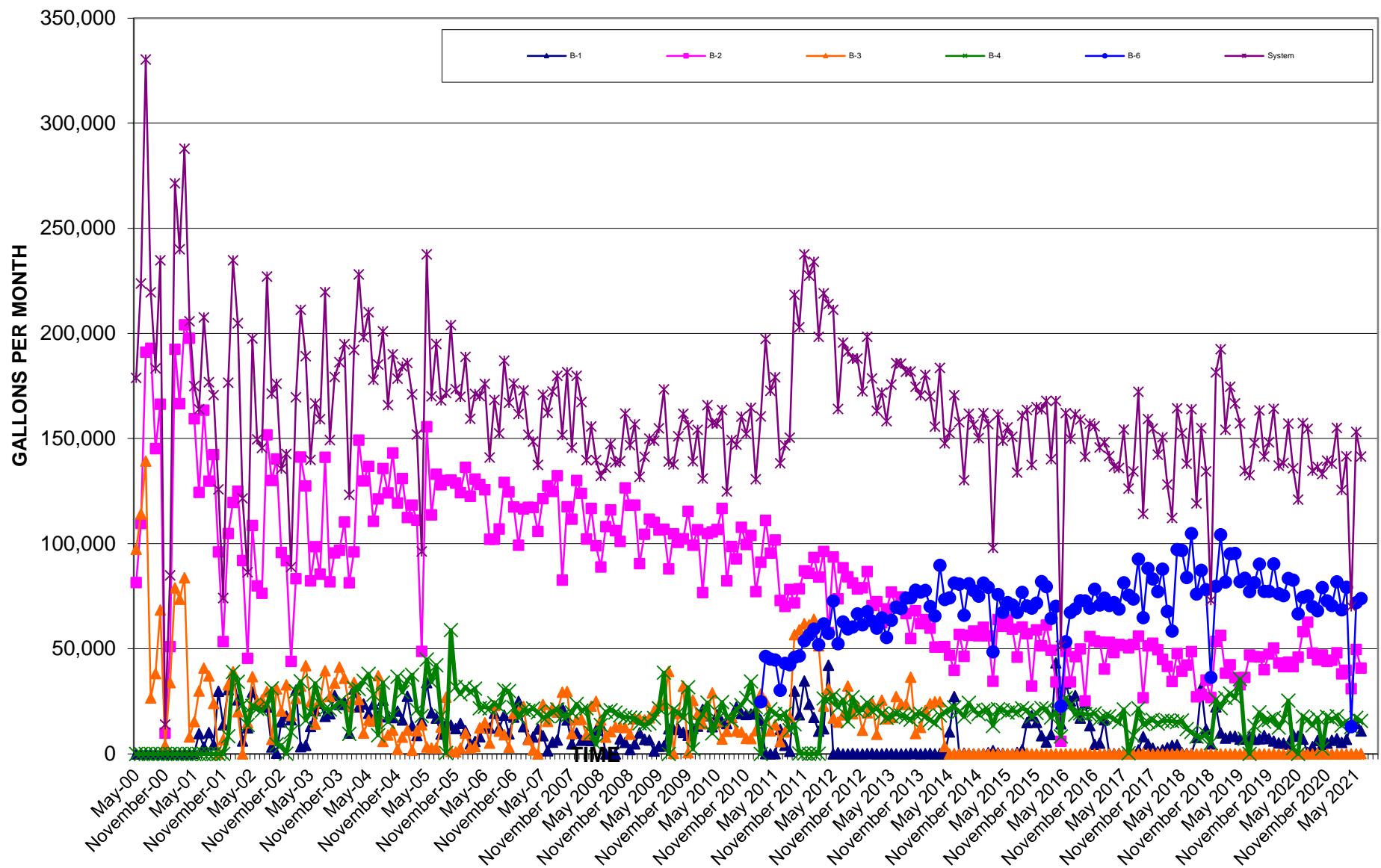


Figure 3
Groundwater Pump-and-Treat System Recovery - Trailing 12-Month Total Gallons
Former Appliance Park East Facility, Columbia, Maryland

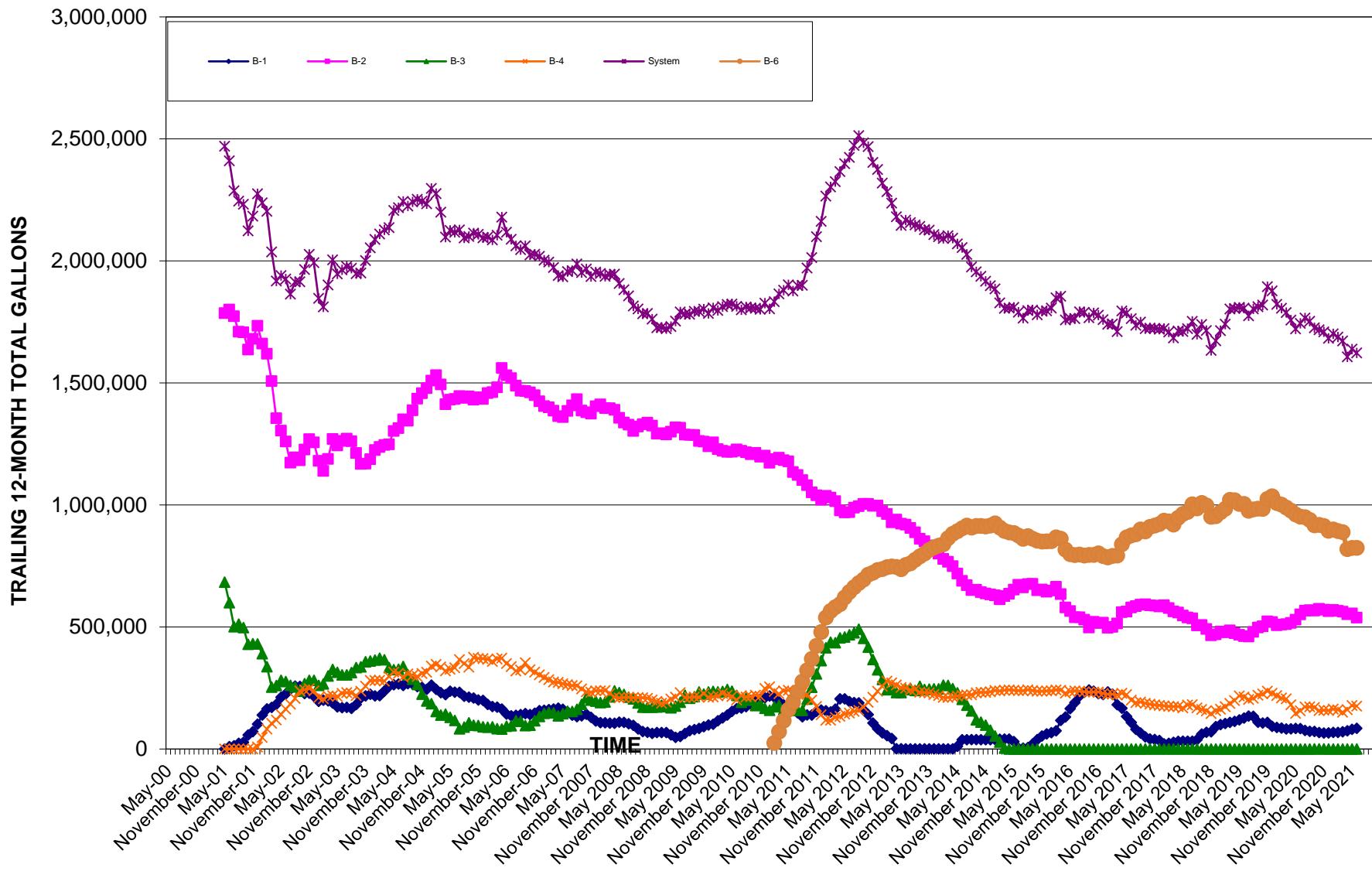


Figure 4
TCE Concentrations in Groundwater Recovery Wells
Former Appliance Park East Facility, Columbia, Maryland

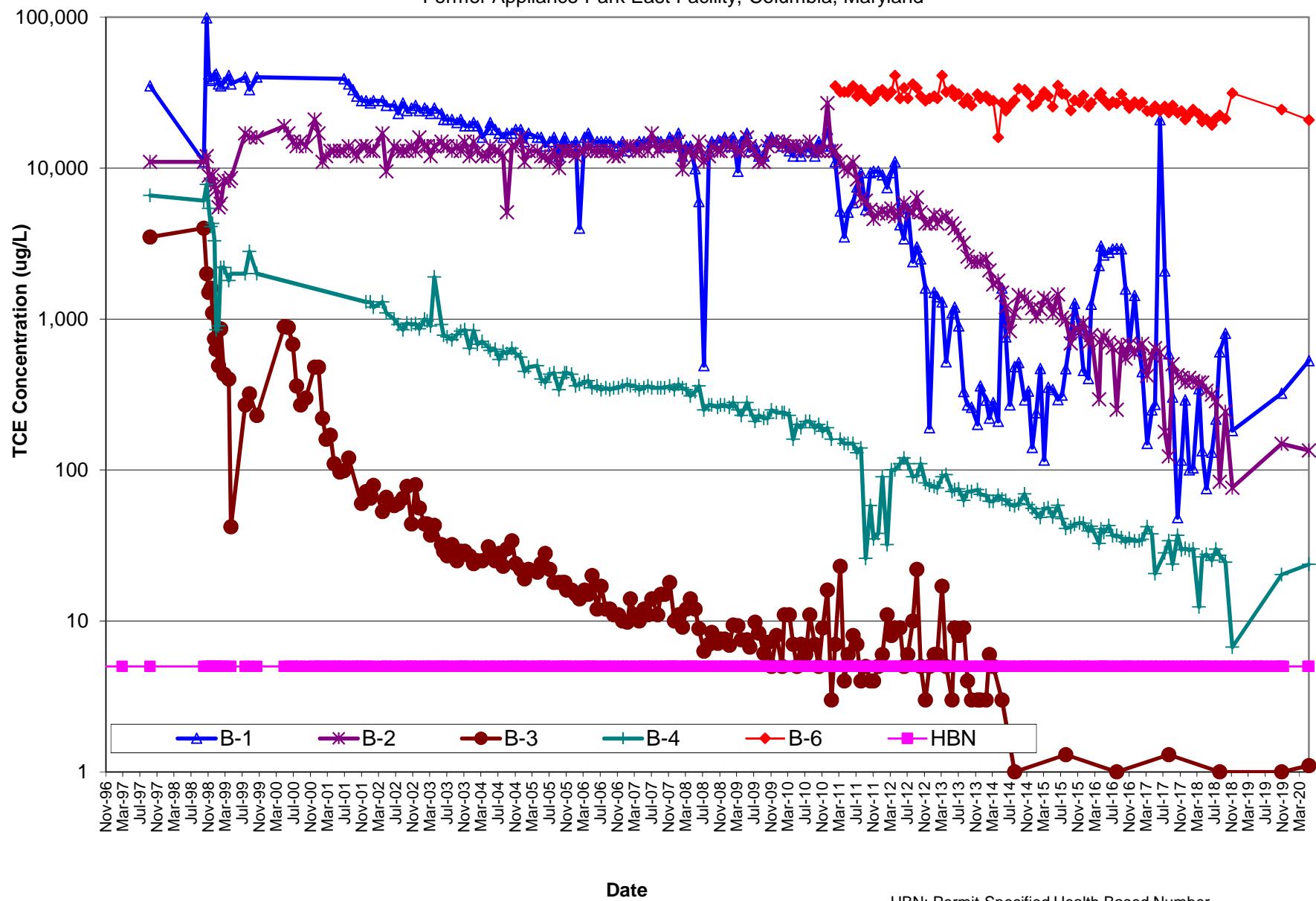


FIGURE 5

**GROUNDWATER MONITORING WELLS
PARCELS A-10 AND A-40
FORMER APPLIANCE PARK EAST
COLUMBIA, MARYLAND**

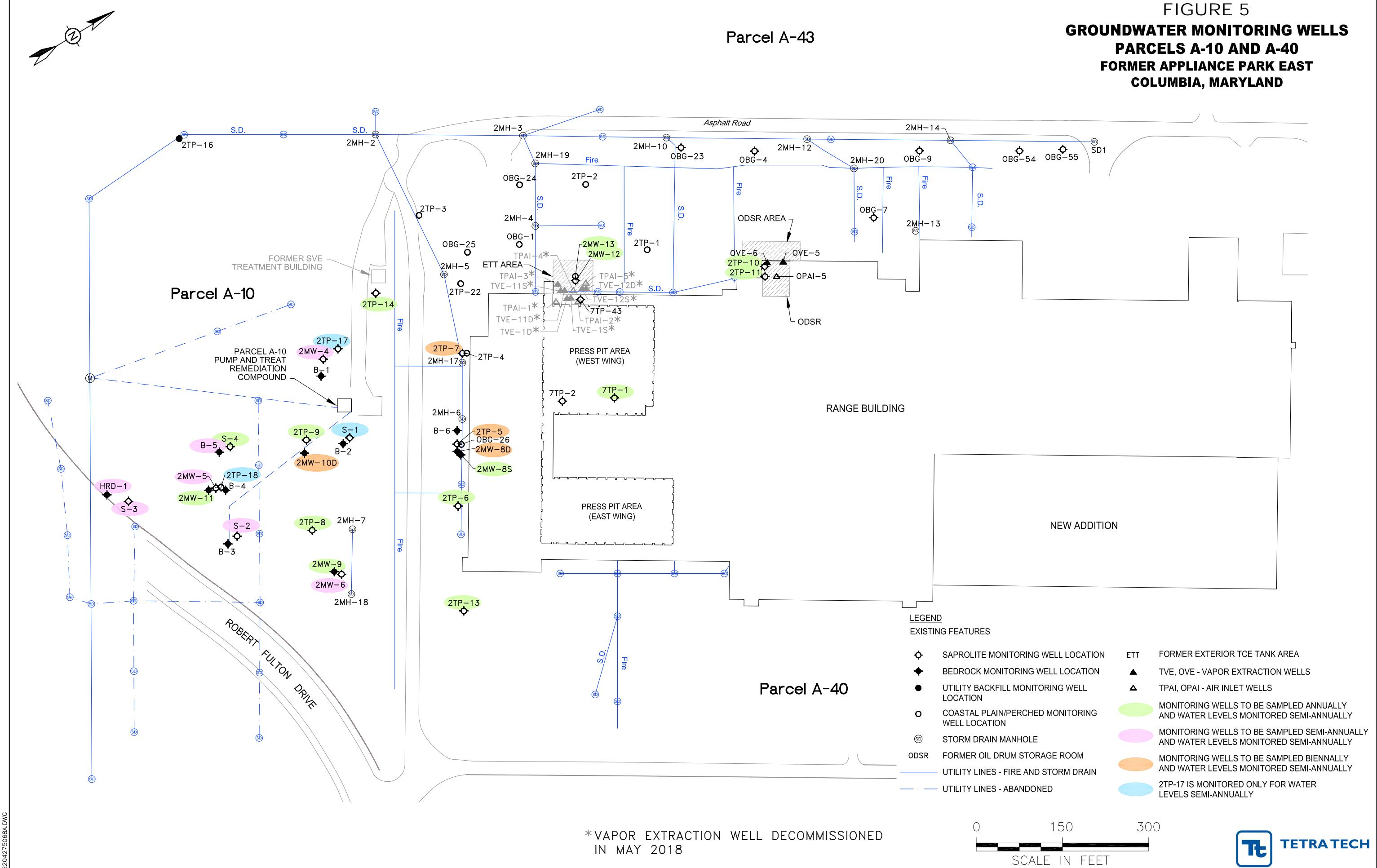


FIGURE 6
HYDRAULIC HEADS FOR PARCEL A-10 SAPROLITE WELLS
MAY 14, 2021
FORMER APPLIANCE PARK EAST
COLUMBIA, MARYLAND

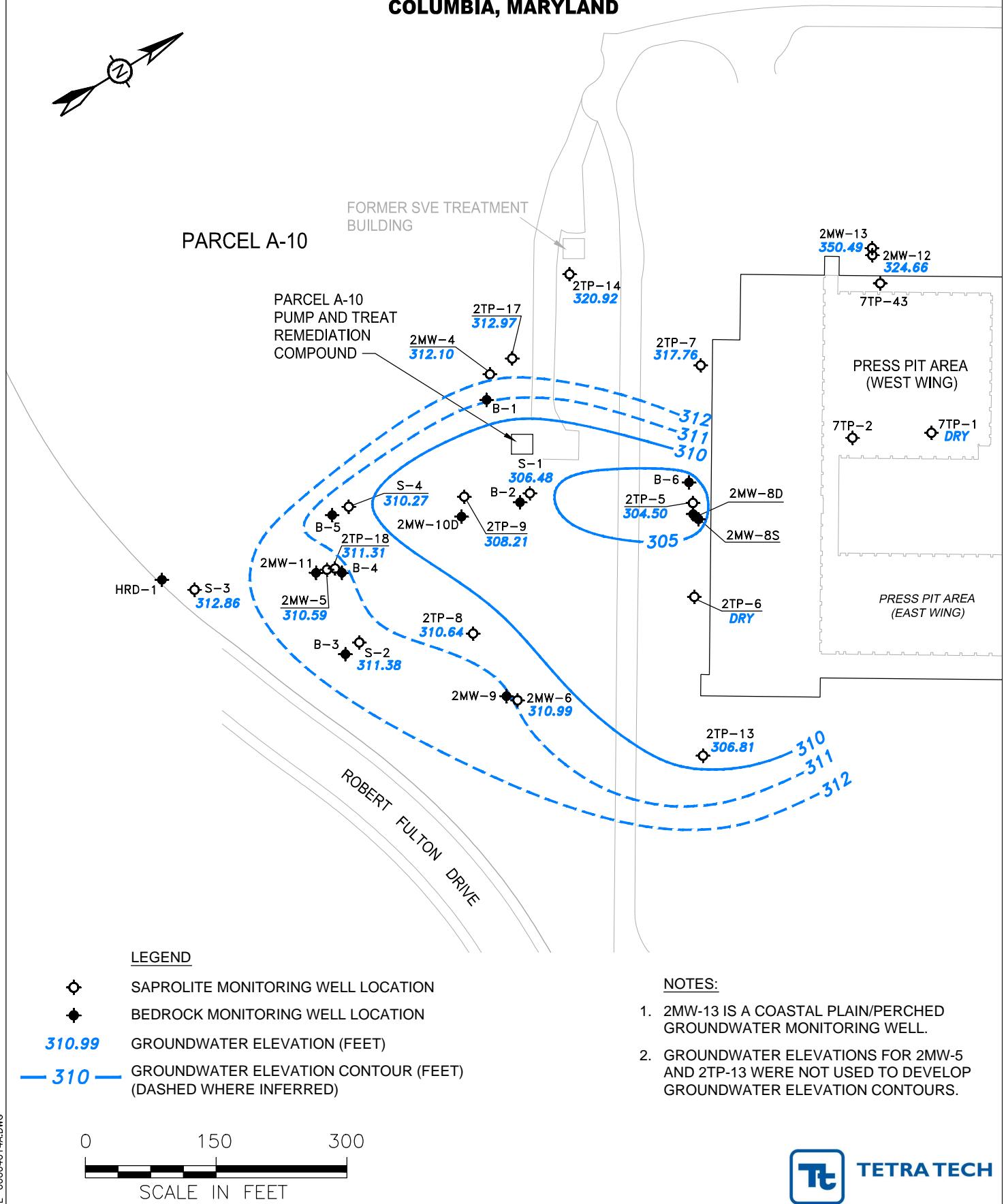


FIGURE 7
HYDRAULIC HEADS FOR PARCEL A-10 BEDROCK WELLS
MAY 14, 2020
FORMER APPLIANCE PARK EAST
COLUMBIA, MARYLAND

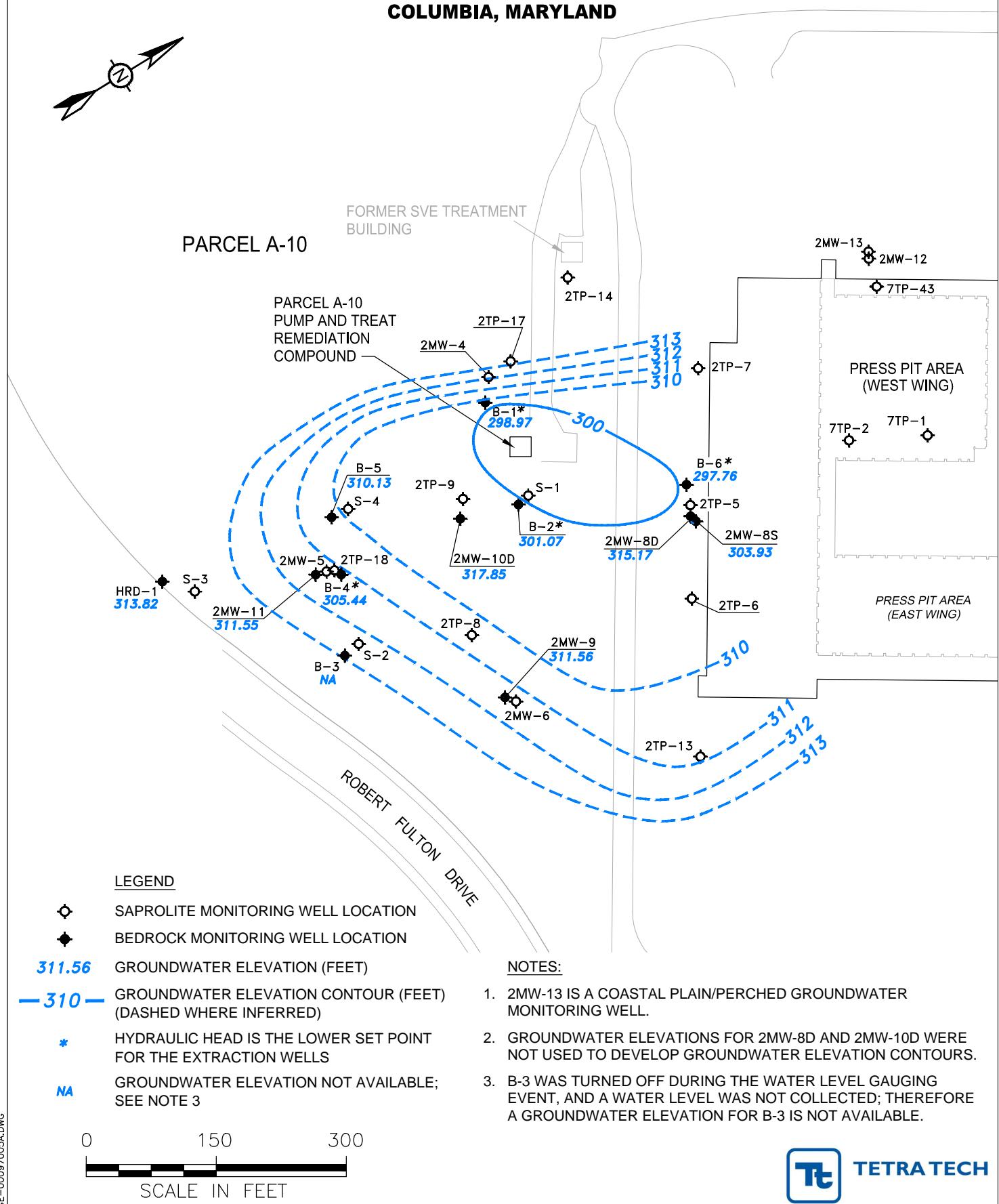


FIGURE 8
APPROXIMATE EXTENT OF TCE IN GROUND WATER FROM
JUNE 2021 SAMPLING EVENT
FORMER APPLIANCE PARK EAST
COLUMBIA, MARYLAND

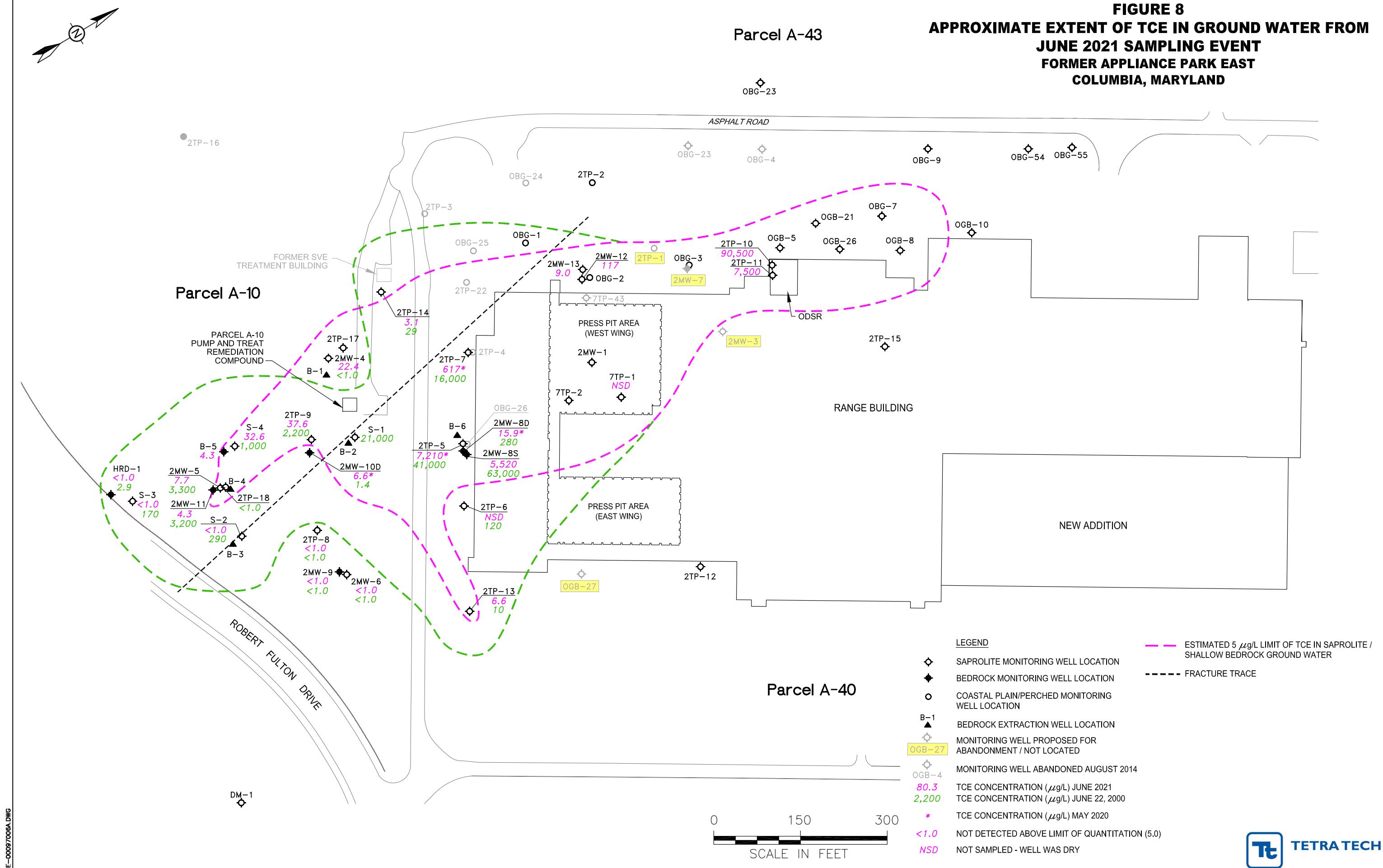


Figure 9
TCE Concentrations within Plume Core
Former Appliance Park East Facility
Columbia, Maryland

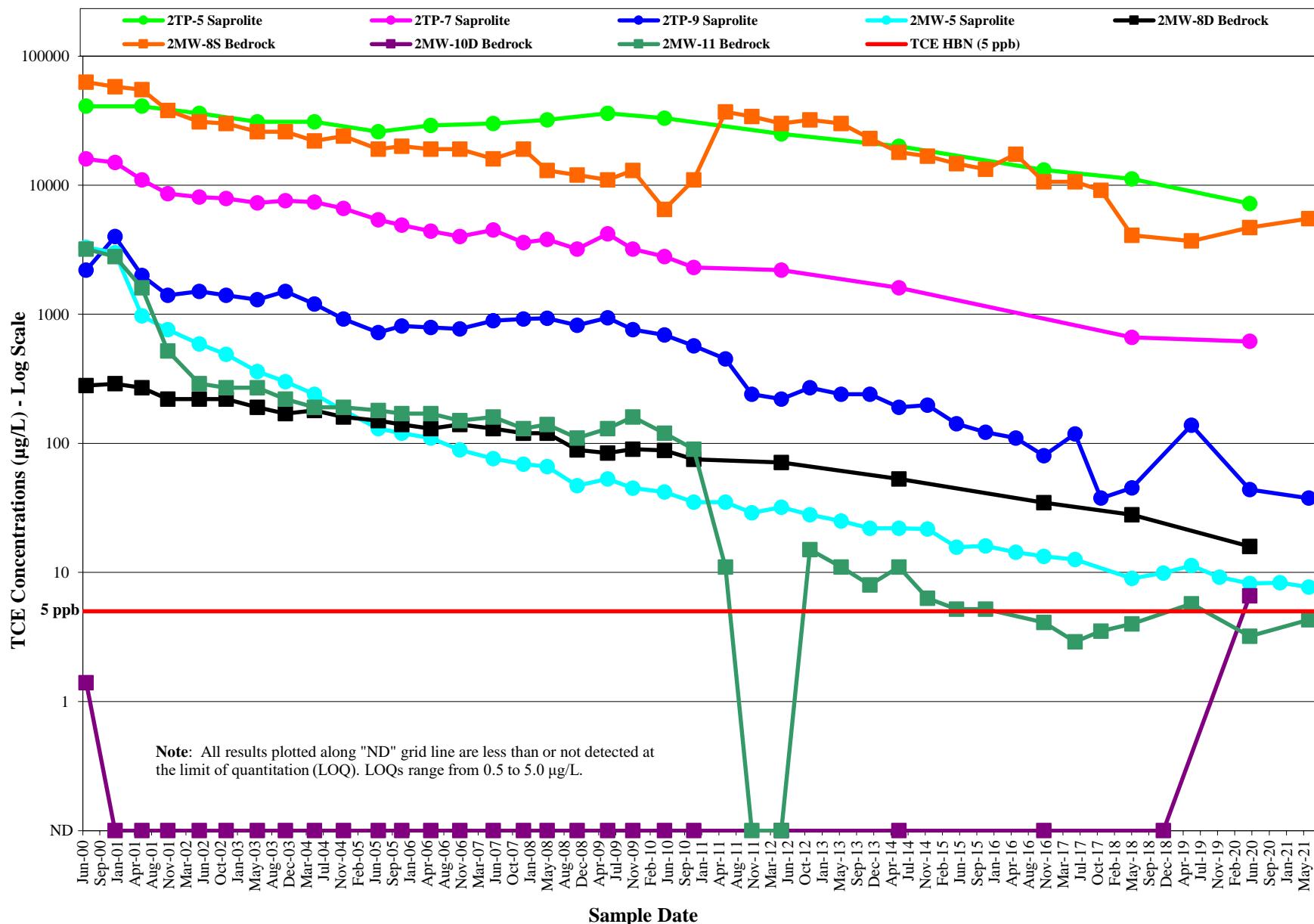


Figure 10
TCE Concentrations at Plume Toe and Cross-Gradient
Former Appliance Park East Facility
Columbia, Maryland

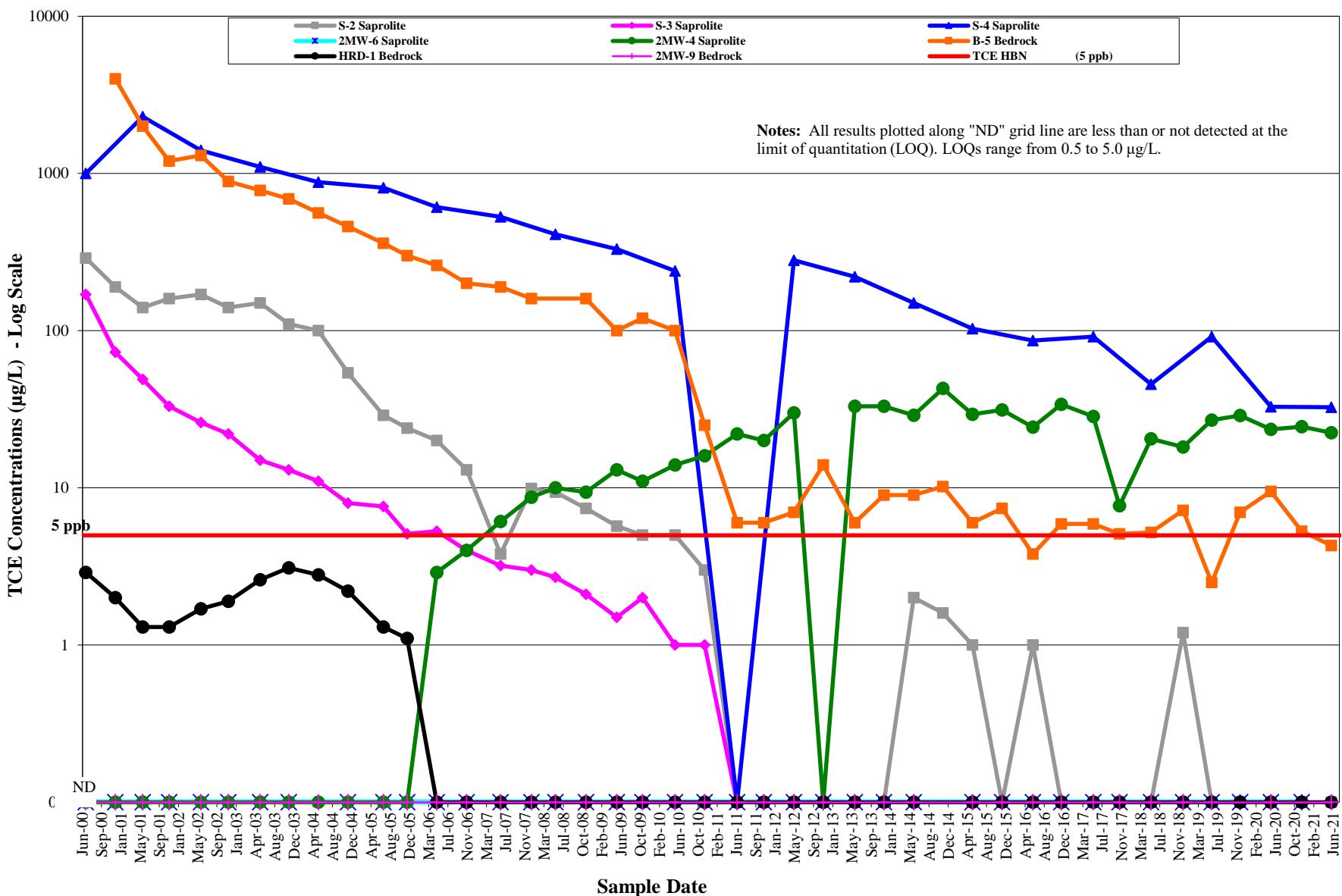


TABLE 1
Groundwater Elevations for Monitoring Wells at CMS Units 2 and 7
May 14, 2021
Former Appliance Park East Facility, Columbia, Maryland

Well ID	Interpreted Lithology	Reference Point Elevation (ft > MSL)	Well Depth (ft BGS)	Well Screen Length (ft)	Well Screen Top (ft BGS)	Well Screen Bottom (ft BGS)	Screen Top Elevation (ft > MSL)	Screen Bottom Elevation (ft > MSL)	Sampling Frequency**	Water Level Monitoring Frequency	Depth to Water on May 14, 2021 (ft BRE)	Groundwater Elevation on May 14, 2021 (ft > MSL)
SAPROLITE / WATER TABLE												
7TP-1	Saprolite	345.76	24	20	4	24	342	322	Annually	Semi-Annually	DRY	DRY
2TP-5	Saprolite	358.02	63	15	48	63	308.38	293.38	Biennially	Semi-Annually	53.52	304.50
2TP-6	Saprolite	358.79	50	15	35	50	321.41	306.41	Annually	Semi-Annually	DRY	DRY
2TP-7	Saprolite	358.76	59	15	44	59	313.16	298.16	Biennially	Semi-Annually	41.00	317.76
2TP-8	Saprolite	348.67	62	15	47	62	299.11	284.11	Annually	Semi-Annually	38.03	310.64
2TP-9	Saprolite	348.85	55	15	40	55	305.95	290.95	Annually*	Semi-Annually	40.64	308.21
2TP-10	Coastal Plain & Saprolite	358.95	23	10	13	23	345	335	Annually	Semi-Annually	17.72	341.23
2TP-11	Coastal Plain & Saprolite	357.57	30	10	20	30	338	328	Annually	Semi-Annually	18.12	339.45
2TP-13	Saprolite	362.11	59	15	44	59	315.58	300.58	Annually	Semi-Annually	55.30	306.81
2TP-14	Saprolite	348.85	48	15	33	48	314.77	299.77	Annually	Semi-Annually	27.93	320.92
2TP-17	Saprolite	349.29	47	15	32	47	314.8	299.8	None	Semi-Annually	36.32	312.97
2TP-18	Saprolite	346.42	43	15	28	43	316.02	301.02	None	Semi-Annually	35.11	311.31
2MW-4	Saprolite	348.8	46	20	26	46	320.31	300.31	Semi-Annually	Semi-Annually	36.70	312.10
2MW-5	Saprolite	346.06	68	15	53	68	290.87	275.87	Semi-Annually	Semi-Annually	35.47	310.59
2MW-6	Saprolite	350.13	44	15	29	44	318.6	303.6	Semi-Annually	Semi-Annually	39.14	310.99
2MW-12	Saprolite	353.61	36	15.0	21.0	36.0	332.57	317.57	Annually	Semi-Annually	28.95	324.66
2MW-13	Coastal Plain/Perched	353.42	11	8	3	11	350.69	342.69	Annually	Semi-Annually	2.93	350.49
S-1	Saprolite	349.94	41	30	11	41	336.9	306.9	None	Semi-Annually	43.46	306.48
S-2	Saprolite	346.89	50	30	20	50	325.06	295.06	Semi-Annually	Semi-Annually	35.51	311.38
S-3	Saprolite	347.69	50	30	20	50	325.78	295.78	Semi-Annually	Semi-Annually	34.83	312.86
S-4	Saprolite	346.14	50	30	19	49	325.23	295.23	Annually	Semi-Annually	35.87	310.27
2MW-8S	Bedrock	359.24	128	20	108	128	248.8	228.8	Annually*	Semi-Annually	55.31	303.93
2MW-9	Bedrock	349.45	93	20	73	93	274.47	254.47	Annually*	Semi-Annually	37.89	311.56
2MW-11	Bedrock	345.54	120	20	100	120	243.61	223.61	Annually*	Semi-Annually	33.99	311.55
2MW-8D	Bedrock	359.09	208	15	193	208	163.43	148.43	Biennially	Semi-Annually	43.92	315.17
2MW-10D	Bedrock	348.56	200	24	176	200	170.08	146.08	Biennially	Semi-Annually	30.71	317.85
HRD-1	Bedrock	341.11	140	20	120	140	221.11	201.11	Semi-Annually	Semi-Annually	27.29	313.82
B-5	Bedrock	345.99	140	86	54	140	290.08	204.08	Semi-Annually	Semi-Annually	35.86	310.13

NOTES:

BGS = below ground surface

ft = feet

BRE = below reference elevation

> MSL = above mean sea level

* Well sampled on an annual basis starting November 2018 per October 29, 2018 EPA approval.

** Semi-annual frequency: May/June and November/December. Annual frequency: May/June. Biennial sampling: May/June of even years starting in 2012.

The low set points for the pump-and-treat system recovery (extraction) wells are: B-1: 298.97 ft MSL; B-2: 301.07 ft MSL; B-3: 306.43 ft MSL; B-4: 301.37 ft MSL; and B-6: 297.00 ft MSL.

TABLE 2
VOC Detections for CMS Units 2 and 7 Groundwater Monitoring
June 3, 2021
Former Appliance Park East Facility, Columbia, Maryland

Well - Sample ID	Trichloroethene (ug/L)	Cis-1,2-dichloroethene (ug/L)	Trans-1,2-dichloroethene (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Tetrachloroethene (ug/L)	Chloroform (ug/L)	1,1,2-Trichloroethane (ug/L)	Vinyl Chloride (ug/L)
Saprolite / Water Table									
7TP-1	NSD	NSD	NSD	NSD	NSD	NSD	NSD	NSD	NSD
2TP-5*	NR	NR	NR	NR	NR	NR	NR	NR	NR
2TP-6	NSD	NSD	NSD	NSD	NSD	NSD	NSD	NSD	NSD
2TP-7*	NR	NR	NR	NR	NR	NR	NR	NR	NR
2TP-8	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2TP-9	37.6	244	4.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2TP-10 ^{CS}	90,500	63.6	5.6	2.2	4.3	97.8	11.4	27.7	<1.0
2TP-11 ^{CS}	7,500	20	2.9	<1.0	2.6	8.2	2.9	1.4	<1.0
2TP-13	6.6	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2TP-14	3.1	57.5	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2MW-4	22.4	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2MW-5	7.7	4.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2MW-6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2MW-12	117	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2MW-13 ^{CP}	9.0	3.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0
S-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
S-3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
S-4	32.6	44.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bedrock									
2MW-8S	5,520	1,060	27.8	3.7	6.1	<1.0	<1.0	<1.0	2.9
2MW-9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2MW-11	4.3	19.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2MW-8D*	NR	NR	NR	NR	NR	NR	NR	NR	NR
2MW-10D*	NR	NR	NR	NR	NR	NR	NR	NR	NR
HRD-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B-5	4.3	20.1	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

NOTES:

ug/L = Micrograms per liter

/ = Duplicate samples

NR = well not sampled - not required for this sampling event

NS = Not sampled - unable to retrieve passive bag sampler

NSD = Not sampled due to well being dry or had insufficient volume of water

MW-12, MW-13, 2TP-10, and 2TP-11 added to semi-annual sampling in June 2011

Starting in November 2009 samples analyzed using EPA Method 8260

< = result is less than or not detected at this limit of quantitation

^{CS} Coastal Plain & Saprolite

^{CP} Coastal Plain/Perched Well

* Well on a biennial sampling frequency.

TABLE 3
Historical TCE Analytical Results for CMS Units 2 and 7 Groundwater Monitoring
Former Appliance Park East Facility, Columbia, Maryland

Well - Sample ID	Well Depth (ft BGS)	Well Screen (ft BGS)		6/22/2000		12/21/2000		6/7/2001		11/16/2001		12/1/2001		5/31/2002	11/15/2002		5/30/2003		11/21/2003	
		Top (ft BGS)	Bottom (ft BGS)	Passive Bag Sample Depth (ft BMP)	TCE (ug/L)	Passive Bag Sample Depth (ft BMP)	TCE (ug/L)	Passive Bag Sample Depth (ft BMP)	TCE (ug/L)	Passive Bag Sample Depth (ft BMP)	TCE (ug/L)	Passive Bag Sample Depth (ft BMP)	TCE (ug/L)	Passive Bag Sample Depth (ft BMP)	TCE (ug/L)	Passive Bag Sample Depth (ft BMP)	TCE (ug/L)	Passive Bag Sample Depth (ft BMP)	TCE (ug/L)	
Saprolite / Water Table																				
7TP-1	24	4.0	24.0																	
2TP-5*	63.0	48.0	63.0	55	41,000	55	NR	55	41,000	55	NR	55	NC	36,000	55	NR	55	31,000	55	NR
2TP-6	50.0	35.0	50.0	46	120	51	13	51	1.1†	51	NS	50	NC	NSD	50	1.6	50	NSD	50	<1.0
2TP-7*	59.0	44.0	59.0	52	16,000	50	15,000	50	11,000	50	8,600	50	NC	8,100	50	7,900	60	7,300	60	7,600
2TP-8	62.0	47.0	62.0	55	<1.0	53	<1.0	53	<1.0	53	<1.0	60	NC	<1.0	60	<1.0	60	<1.0	60	<1.0
2TP-9	55.0	40.0	55.0	48	2,200	50	4,000	50	2,000	50	1,400	48	NC	1,500	48	1,400	48	1,300	48	1,500
2TP-10 ^{CS}	21.9	13.0	23.0		NC		NC	NC	NC	NC		67,000	NC	NC	NC	NC	NC	NC	NC	NC
2TP-11 ^{CS}	30.0	19.2	30.0		NC		NC	NC	NC	NC		1,500/1,200	NC	NC	NC	NC	NC	NC	NC	NC
2TP-13	59.0	44.0	59.0	52	10	59	12	59	1.7‡	59	15	59	NC	8.1	59	1.8	59	1.8	59.0	4.3
2TP-14	58.0	43.0	58.0	40	29	40	30	40	34	40	33	44	NC	30	44	28	40	21	40	20
2MW-4	46.0	26.0	46.0	40	<1.0	44	<1.0	44	<1.0	44	<1.0	44	NC	<1.0	44	<1.0	44	<1.0	44	<1.0
2MW-5	68.0	53.0	68.0	61	3,300	54	3,000	54	970	54	760	54	NC	590	54	490	61	360	61	300
2MW-6	44.0	29.0	44.0	40	<1.0	44	<1.0	44	<1.0‡	44	<1.0	45	NC	<1.0	45	<1.0	45	<1.0	45	<1.0
2MW-12	34.9	19.9	34.9		NA	NS	NA	NA	NA	NA										
2MW-13 ^{CP}	11.0	3.0	11.0		NA		NA	NA	NA	NA										
S-2	50.0	20.0	50.0	40	290	40	190	40	140	40	160	45	NC	170	45	140	46	150	46	110
S-3	50.0	20.0	50.0	40	170	40	73	40	49	40	33	45	NC	26	45	22	46	15	46	13
S-4	50.0	20.0	50.0	40	1,000	40	NR	40	2,300	40	NR	45	NC	1,400	45	NR	45	1,100	45	NR
Bedrock																				
2MW-8S	128.0	108.0	128.0	118	63,000	91	58,000	91	55,000	91	38,000	91	NC	31,000	91	30,000	118	26,000	118	26,000
2MW-9	93.0	73.0	93.0	83	<1.0	68	<1.0	68	<1.0	68	<1.0	68	NC	<1.0	68	<1.0	83	<1.0	83	<1.0
2MW-11	120.0	100.0	120.0	110	3,200	79	2,800	79	1,600	79	520	79	NC	290	79	270	110	270	110	220
2MW-8D*	208.0	193.0	208.0	200	280	126	290	126	270	126	220	126	NC	220	126	220	200	190	200	170
2MW-10D*	200.0	176.0	200.0	188	1.4	116	<1.0	116	<1.0	116	<1.0	116	NC	<1.0	116	<1.0	188	<1.0	188	<1.0
HRD-1	140.0	120.0	140.0	130	2.9	85	2.0	85	1.3	85	1.3	85	NC	1.7	85	1.9	130	2.6	130.0	3.1
B-5	140.0	54.0	140.0	64	NC	90	4,000	90	2,000	90	1,200	90	NC	1,300	90	890	95	780	95	690
Field Blank	-	-	-	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	NC	NC	-	<1.0	-	<1.0	-	<1.0

TABLE 3
Historical TCE Analytical Results for CMS Units 2 and 7 Groundwater Monitoring
Former Appliance Park East Facility, Columbia, Maryland

Well - Sample ID	Well Depth (ft BGS)	Well Screen (ft BGS)		5/21/2004		11/19/2004	11/19/2004	6/24/2005	11/18/2005*	6/14/2007	12/20/2007	1/2008	5/16/08	11/20/08	5/29/09	11/3/09	5/21/10	11/19/10	6/6/11	11/18/11	5/21/12	11/16/12	5/30/13	11/25/13	5/27/14	11/21/14	5/22/15	11/20/15		
		Top (ft BGS)	Bottom (ft BGS)	Passive Bag Sample Depth (ft BMP)	TCE (ug/L)	Passive Bag Sample Depth (ft BMP)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)	TCE (ug/L)		
Saprofile / Water Table																														
7TP-1	24	4.0	24.0										NC	NSD	NR	NSD	NR	NSD	NR	NSD	NR	NSD	NR							
2TP-5*	63.0	48.0	63.0	55	31,000	55	NR	26,000	NR	30,000	NR	NC	32,000	NR	36,000	NR	33,000	NR	NR	NR	25,000	NR	NR	NR	20,000	NR	NR	NR	NR	
2TP-6	50.0	35.0	50.0	50	NSD	50	<1.0	<1.0	<1.0	NSD	<2.0	NC	NSD	NSD	NSD	NSD	NSD	<1.0	NSD	NR	NSD	NR	NSD	NR	NSD	NR	NSD	NR	<1.0	NR
2TP-7*	59.0	44.0	59.0	60	7,400	60	6,600	5,400	4,900	4,500	3,600	NC	3,800	3,200	4,200	3,200	2,800	2,300	NR	NR	2,200	NR	NR	NR	1,600	NR	NR	NR	NR	
2TP-8	62.0	47.0	62.0	60	<1.0	60	<1.0	<1.0	<1.0	<2.0	<2.0	NC	<2.0	<0.5	<0.5	<1.0	<1.0	<1.0	<5.0	NR	<5.0	NR	<5.0	NR	<5.0	NR	<5.0	NR	<1.0	NR
2TP-9	55.0	40.0	55.0	48	1,200	48	920	720	810	890	920	NC	930	820	940	760	690	570	450	240	220	270	240	240	190	198	142	122		
2TP-10 ^{CS}	21.9	13.0	23.0	NC	NC	NC	NC	NC	NC	50,000	NC	68,000	NR	58,000	NR	53,000	NR	54,000	NR	55,300	NR									
2TP-11 ^{CS}	30.0	19.2	30.0	NC	NC	NC	NC	NC	NC	3,200	NC	5,400	NR	7,800	NR	6,400	NR	7,000	NR	7,240	NR									
2TP-13	59.0	44.0	59.0	59	NSD	59	2.4	2.0	1.9	<2.0	<2.0	NC	<2.0	0.7	0.5	<1.0	<1.0	<1.0	7.0	NR	10	NR	10	NR	9.0	NR	8.9	NR		
2TP-14	58.0	43.0	58.0	40	18	40	14	10	9	5.4	4.6	NC	4.4	3.6	3.1	2.0 J	3.0 J	4.0 J	<5.0	NR	<5.0	NR	<5.0	NR	<5.0	NR	<5.0	NR	5.7	NR
2MW-4	46.0	26.0	46.0	44	<1.0	44	<1.0	<1.0	2	6.1	8.7	NC	10.0	9.4	13	11	14	16	22	20	30	<5.0	33	33	29	33	29.4	31.3		
2MW-5	68.0	53.0	68.0	61	240	61	180	130	120	76	69	NC	66	47	53	45	42	35	35	29	32	28	25	22	22	21.7	15.7	16		
2MW-6	44.0	29.0	44.0	45	NSD	45	<1.0	<1.0	<1.0	<2.0	<2.0	NC	<2.0	<0.5	<0.5	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	
2MW-12	34.9	19.9	34.9	NA	NA	NA	NA	NA	NA	NA	NA	NC	890	NC	NC	NC	NC	NC	NC	1,900	NR	2,000	NR	1,200	NR	1,000	NR	292	NR	
2MW-13 ^{CP}	11.0	3.0	11.0	NA	NA	NA	NA	NA	NA	8.1	NC	21	NR	9.0	NR	13	NR	11	NR	11.8	NR									
S-2	50.0	20.0	50.0	46	100	46	54	29	24	4	10	NC	9.4	7.4	5.7	5.0 J	5.0 J	3.0 J	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1.6	1.0	<1.0
S-3	50.0	20.0	50.0	46	11	46	8	8	5	3.2	3.0	NC	2.7	2.1	1.5	2.0 J	1.0 J	1.0 J	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0
S-4	50.0	20.0	50.0	45	880	45	NR	810	NR	530	NR	NC	410	NR	330	NR	240	NR	<5.0	NR	280	NR	220	NR	150	NR	103	NR		
Bedrock																														
2MW-8S	128.0	108.0	128.0	118	22,000	118	24,000	19,000	20,000	16,000	19,000	NC	13,000	12,000	11,000	13,000	6,500	11,000	37,000	34,000 / 33,000	29,000 / 30,000	30,000 / 32,000	28,000 / 30,000	23,000 / 23,000	18,000 / 18,000	14,700 / 16,800	14,700 / 13,600	13,300 / 13,300		
2MW-9	93.0	73.0	93.0	83	<1.0	83	<1.0	<1.0	<1.0	<2.0	<2.0	NC	<2.0	<0.5	<0.5	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	
2MW-11	120.0	100.0	120.0	110	190	110	190	180	170	160	130	NC	140	110	130	160	120	90	11	<5.0	<5.0	<5.0	15	11	8.0	11	6.3	5.2	5.2	
2MW-8D*	208.0	193.0	208.0	200	180	200	160	150	140	130	120	NC	120	89	84	90	88	75	NR	NR	71	NR	NR	NR	53	NR	NR			
2MW-10D*	200.0	176.0	200.0	188	<1.0	188	<1.0	<1.0	<1.0	<2.0	<2.0	NC	<2.0	<0.5	<0.5	<1.0	<1.0	<1.0	NR	NR	<5.0	NR	NR	NR	<5.0	NR	NR			
HRD-1	140.0	120.0	140.0	130	2.8	130	2.2	1.3	1.1	<2.0	<2.0	NC	<2.0	<0.5	<0.5	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	
B-5	140.0	54.0	140.0	95	560	95	460	360	300	190	160	NC	NS	160 E	100	120	100	25	6.0	6.0	7.0	14	6.0	9.0	9.0	10.2	6.0	7.4		
Field Blank	-	-	-	-	11	-	11	13	12	<2.0	<2.0	NC	<2.0	<0.5	<0.5	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	

TABLE 3
Historical TCE Analytical Results for CMS Units 2 and 7 Groundwater Monitoring
Former Appliance Park East Facility, Columbia, Maryland

Well - Sample ID	Well Depth (ft BGS)	Well Screen (ft BGS)		5/27/16	11/18/16	6/2/17	11/10/17	5/23/18	12/6/18	5/31/19	11/22/19	5/29/20	12/4/20	6/3/21
		Top (ft BGS)	Bottom (ft BGS)	TCE (µg/L)	TCE (µg/L)	TCE (µg/L)	TCE (µg/L)	TCE (µg/L)	TCE (µg/L)	TCE (µg/L)	TCE (µg/L)	TCE (µg/L)	TCE (µg/L)	TCE (µg/L)
Saprolite / Water Table														
7TP-1	24	4.0	24.0	NR	NR	Not sampled - well was dry								
2TP-5*	63.0	48.0	63.0	NR	13,100	NR	NR	11,200	NR	NR	NR	7,210	NR	NR
2TP-6	50.0	35.0	50.0	NR	NR	1.2	NR	NR	NR	NS	Not sampled - well was dry			
2TP-7*	59.0	44.0	59.0	NR	956	NR	NR	661	NR	NR	NR	617	NR	NR
2TP-8	62.0	47.0	62.0	NR	NR	<1.0	NR	<1.0	NR	<1.0	NR	<1.0	NR	<1.0
2TP-9	55.0	40.0	55.0	122	80.3	118	83.8	45.2	NR**	138	NR	43.9	NR	37.6
2TP-10 ^{CS}	21.9	13.0	23.0	64,200	NR	78,500	NR	72,700	NR	107,000	116,000	107,000	NR	90,500
2TP-11 ^{CS}	30.0	19.2	30.0	8,150	NR	8,320	NR	6,970	NR	8,650	NR	8,830	NR	7,500
2TP-13	59.0	44.0	59.0	NR	NR	8.1	NR	6.0	NR	6.6	NR	<1.0	NR	6.6
2TP-14	58.0	43.0	58.0	NR	NR	3.1	NR	2.6	NR	3.3	NR	3.4	NR	3.1
2MW-4	46.0	26.0	46.0	31.3	34	28.4	22.8	20.5	18.2	27	28.9	23.6	24.5	22.4
2MW-5	68.0	53.0	68.0	16	13.3	12.6	10.7	9.0	9.9	11.3	9.2	8.2	8.1 / 8.3	7.7
2MW-6	44.0	29.0	44.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2MW-12	34.9	19.9	34.9	NR	NR	219	NR	184	NR	103	NR	94.5	NR	117
2MW-13 ^{CP}	11.0	3.0	11.0	NR	NR	10	NR	7.5	NR	10.7	NR	10.9	NR	9.0
S-2	50.0	20.0	50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
S-3	50.0	20.0	50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
S-4	50.0	20.0	50.0	NR	NR	91.7	NR	45.7	NR	91.6	NR	32.8	NR	32.6
Bedrock														
2MW-8S	128.0	108.0	128.0	13,300 / 13,300	10,600 / 11,500	10,600 / 9,160	9,150 / 8,040	4,090 / 4,040	NR**	3,700 / 3,090	NR	4,700 / 4,490	NR	5,520 / 4,540
2MW-9	93.0	73.0	93.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR**	<1.0	NR	<1.0	NR	<1.0
2MW-11	120.0	100.0	120.0	5.2	4.1	2.9	3.5	4.0	NR**	5.7	NR	3.2	NR	4.3
2MW-8D*	208.0	193.0	208.0	NR	34.7	NR	NR	28	NR	NR	NR	15.9	NR	NR
2MW-10D*	200.0	176.0	200.0	NR	<1.0	NR	NR	NS	<1.0	NR	NR	6.6	NR	NR
HRD-1	140.0	120.0	140.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B-5	140.0	54.0	140.0	7.4	5.9	5.9	5.1	5.2	7.2	2.5	7.0	9.5	9.5	4.3
Field Blank	-	-	-	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

NOTES:

bGS = Below ground surface

BGS = Below ground surface

^{CS} Coastal Plain & Saprolite

^{CP} Coastal Plain/Perched Well

/ = Duplicate samples

TCE = Trichloroethene

NC = Not collected

NA = Not available

NR = Not required for this sampling event

NS = Not sampled unable to retrieve passive bag sampler

NSD = Not sampled due to insufficient volume of water in well

< = result is less than or not detected at this limit of quantitation

MW-12, MW-13, 2TP-10, and 2TP-11 added to semi-annual sampling in June 2011

Starting in November 2009 samples analyzed using EPA Method 8260

* Well on biennial sampling frequency

Table presents concentrations from May 2008 to the present

** Well on annual sampling frequency per October 29, 2018 EPA approval.

ATTACHMENT 2

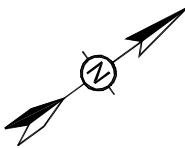
To Semi-Annual Project Progress Report
RCRA Corrective Action Permit
No. MDD046279311

General Electric Co.
Former Appliance Park East Facility
Columbia, MD

Period January 1, 2021 to June 30, 2021

**Findings Summary for Warehouse Building Oil/Water Separator and
Acid Neutralization Units RFI Unit 6**

FIGURE 1
GROUNDWATER ELEVATION CONTOUR MAP
NOVEMBER 17, 2017
RFI UNIT #6
GE - FORMER APPLIANCE PARK EAST
COLUMBIA, MARYLAND

**LEGEND**

- ||||||| RAILROAD
- MONITORING WELL
- ◇ TEMPORARY PIEZOMETER (REMOVED)
- 336.46** GROUNDWATER ELEVATION (FT. MSL)
- 337** GROUNDWATER ELEVATION CONTOUR (FEET)
(DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

NOTE:

COULD NOT LOCATE OBG-67 AND OBG-68.

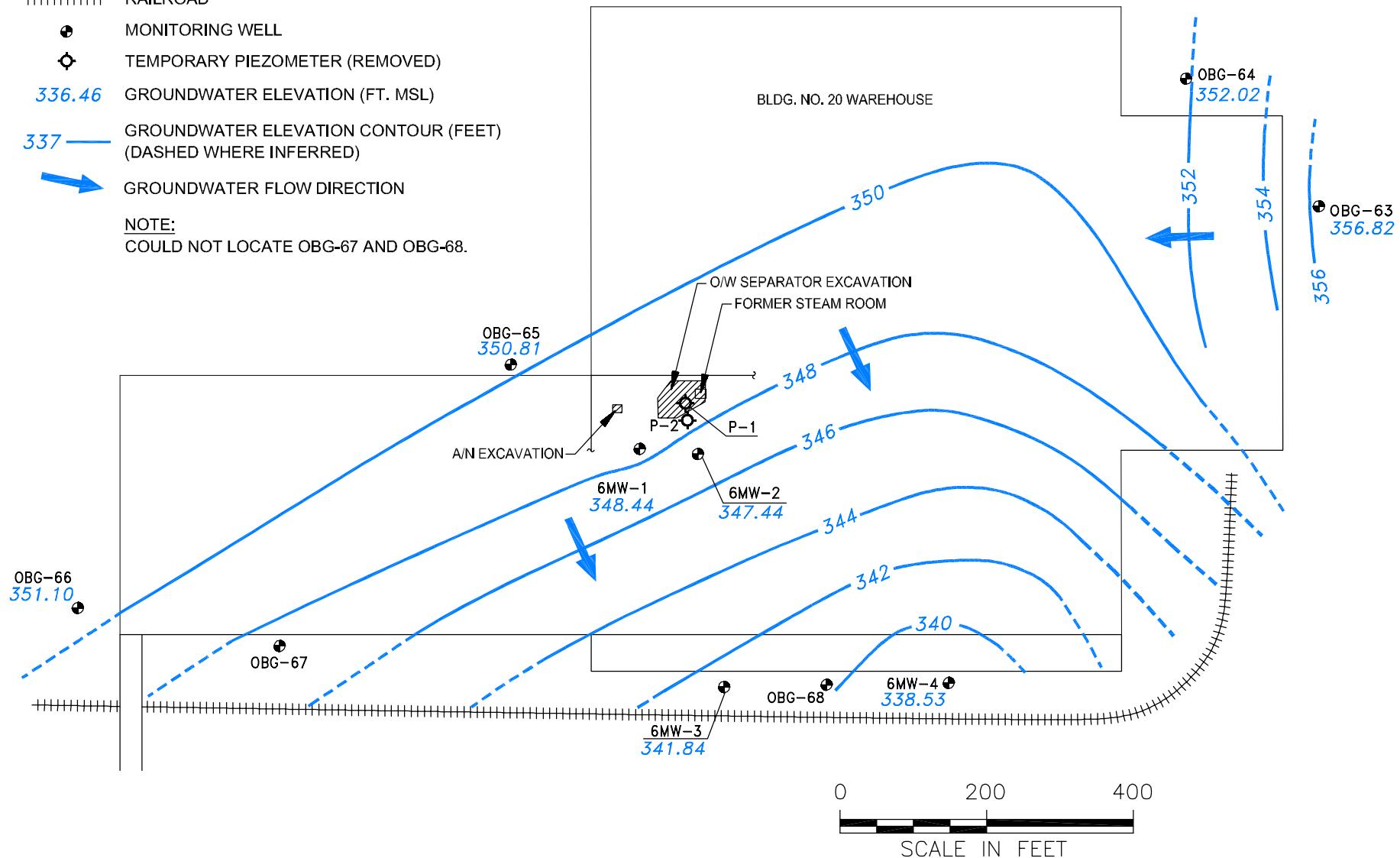


Table 1 Summary of Ground Water Elevations

RFI Unit 6

Former Appliance Park East, Columbia, Maryland

Date	17-Oct-94*	17-Jan-95*	18-Apr-95*	18-Jul-95*	16-May-02	14-Nov-07	29-Nov-12	17-Nov-17									
Well ID	Reference Elevation Feet, MSL	Ground Water Elevation Depth to Water Feet, MSL	Ground Water Elevation Depth to Water Feet, MSL	Ground Water Elevation Depth to Water Feet, MSL	Ground Water Elevation Depth to Water Feet, MSL	Ground Water Elevation Depth to Water Feet, MSL	Ground Water Elevation Depth to Water Feet, MSL	Ground Water Elevation Depth to Water Feet, MSL									
6MW-1	359.70	10.99	348.71	11.41	348.29	11.37	348.33	11.05	348.65	12.69	347.01	12.08	347.62	11.53	348.17	11.26	348.44
6MW-2	359.49	11.58	347.91	12.04	347.45	11.93	347.56	11.55	347.94	13.42	346.07	12.68	346.81	12.30	347.19	12.05	347.44
6MW-3	355.21	11.91	343.30	12.00	343.21	12.17	343.04	11.77	343.44	17.14	338.07	14.76	340.45	13.84	341.37	13.37	341.84
6MW-4	355.17	10.81	344.36	10.52	344.65	NM	--	10.59	344.58	15.83	339.34	16.55	338.62	16.86	338.31	16.64	338.53
OBG-63	361.58	9.61	351.97	8.33	353.25	9.22	352.36	9.35	352.23	5.60	355.98	5.61	355.97	4.86	356.72	4.76	356.82
OBG-64	362.40	11.33	351.07	10.52	351.88	11.01	351.39	11.00	351.40	11.51	350.89	11.99	350.41	11.35	351.05	10.38	352.02
OBG-65	362.61	11.97	350.64	11.83	350.78	12.30	350.31	12.12	350.49	13.33	349.28	13.41	349.20	12.50	350.11	11.80	350.81
OBG-66	361.99	11.81	350.18	12.57	349.42	12.42	349.57	11.95	350.04	13.54	348.45	13.37	348.62	11.59	350.40	10.89	351.10
OBG-67	355.05	5.44	349.61	5.55	349.50	5.38	349.67	4.36	350.69	6.69	348.36	NM	--	NM	--	NM	--
OBG-68	355.54	12.05	343.49	12.27	343.27	12.50	343.04	11.93	343.61	NM	--	NM	--	NM	--	NM	--

Notes:

* - Data presented in Addendum to the RCRA Facility Investigation Report for RFI Unit 6, dated 2 August 1995

Reference elevation for all wells is top of PVC casing

MSL - Mean Sea Level

NM - Not measured, well was inaccessible

Table 2 Detected Analytes for Ground Water Samples
RFI Unit 6
Former Appliance Park East, Columbia, Maryland

Sample Number			6-MW-1					6-MW-2					6-MW-3					OOG-65					
Sample Collection Date			8/22/94*	05/16/02	11/14/07	11/29/12	11/17/17	8/23/94*	05/16/02	11/14/07	11/29/12	11/17/17	8/23/94*	05/16/02	11/14/07	11/29/12	11/17/17	8/22/94*	05/16/02	11/14/07	11/29/12	11/17/17	
Analyte	HBN	PQL																					
Field Parameters																							
pH (standard units)	--	--	6.9	6.4	5.9	6.3	6.4	6.3	6.2	6.7	6.0	6.1	6	6.6	6.8	6.7	6.8	6.2	6.4	6.2	6.0	6.0	6.0
Conductivity (mS/cm)	--	--	NA	0.169	0.238	0.116	0.147	NA	0.203	0.660	0.079	0.083	NA	0.771	0.616	0.298	0.321	NA	0.213	0.315	0.090	0.090	0.120
Temperature (°C)	--	--	NA	19.8	17.4	19.1	20.0	NA	19.7	16.5	19.5	19.9	NA	16.7	16.6	17.7	17.8	NA	15.9	15.7	16.1	15.1	15.1
D.O. (mg/L)	--	--	NA	2.83	NA	NA	NA	NA	0.84	NA	NA	NA	NA	2.21	NA	NA	NA	NA	4.63	NA	NA	NA	NA
Permit List 4 Volatiles (µg/L)																							
1,1-Dichloroethene	7	5	--	< 5	< 5	< 5	< 1	--	30	56	85	99.2	--	< 5	< 5	< 5	< 1	--	< 5	< 5	< 5	< 5	< 1
cis-1,2-Dichloroethene	--	5	NA	< 5	< 5	< 5	< 1	NA	82	89	97	65.6	NA	< 5	< 5	< 5	< 1	NA	< 5	< 5	< 5	< 5	< 1
1,2-Dichloroethene (total)	100	5	--	NA	NA	NA	NA	11	NA	NA	NA	NA	NA	--	NA	NA	NA	--	NA	NA	NA	NA	NA
Trichloroethene	5	5	--	< 5	< 5	< 5	< 1	24	110	130	170	170	--	< 5	< 5	< 5	< 1	--	< 5	< 5	< 5	< 5	< 1
Benzene	5	5	--	< 5	< 5	< 5	< 1	2	J	< 5	< 5	< 1	--	< 5	< 5	< 5	< 1	--	< 5	< 5	< 5	< 5	< 1
Tetrachloroethene	5	5	--	< 5	< 5	< 5	< 1	--	6	18	44	75.9	--	< 5	< 5	< 5	< 1	--	< 5	< 5	< 5	< 5	< 1
Inorganic Parameters (µg/L)																							
Antimony	10	30	--	< 5	NA	NA	NA	--	< 5	NA	NA	NA	--	< 5	NA	NA	NA	--	< 5	NA	NA	NA	NA
Chromium	100	10	2.2	J	< 3	NA	NA	0.44	J	< 3	NA	NA	--	< 3	NA	NA	NA	--	< 3	NA	NA	NA	NA

Notes:

mg/L - milligrams per liter

µg/L - micrograms per liter

HBN - Health Based Number

PQL - Practical Quantitation Limit

* - Data presented in *RCRA Facility Investigation Report for RFI Unit 6*, dated 3 March 1995

< 5 or < 1 - Analyte not detected, value indicates detection limit

-- - Not detected.

NA - Not analyzed

J - Analyte present, result may not be accurate or precise

B - Not detected substantially above the level reported in laboratory or field blanks

d - Sample is a duplicate of 6-MW-2

Table 2 (cont.) Detected Analytes for Ground Water Samples
RFI Unit 6
Former Appliance Park East, Columbia, Maryland

Sample Number		6-MW-4		OBG-67	OBG-68	6-MW-100 ^d	6-MW-20 ^d	6-MW-5 ^d			6-FB-1		6-EB-1		6-TB-1		TB-1		
Sample	Collection Date	8/23/94*	05/16/02	8/23/94*	8/23/94*	05/16/02	05/16/02	11/14/07	11/29/12	11/17/17	8/22/94*	05/16/02	8/22/94*	05/16/02	8/23/94*	05/16/02	11/14/07	11/29/12	11/17/17
Analyte	HBN	PQL																	
Field Parameters																			
pH (standard units)	--	--	5.4	6.2	6.8	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Conductivity (mS/cm)	--	--	NA	0.908	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Temperature (°C)	--	--	NA	16.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
D.O. (mg/L)	--	--	NA	4.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Permit List 4 Volatiles (µg/L)																			
1,1-Dichloroethene	7	5	--	< 5	--	--	--	30	57	84	98.6	--	< 5	--	< 5	< 5	< 5	< 5	
cis-1,2-Dichloroethene	--	5	NA	< 5	NA	NA	NA	83	95	96	66.1	NA	< 5	NA	< 5	< 5	< 5	< 1	
1,2-Dichloroethene (total)	100	5	--	NA	--	--	--	10	NA	NA	NA	NA	--	NA	--	NA	NA	NA	
Trichloroethene	5	5	--	< 5	--	--	--	23	110	130	170	--	< 5	--	< 5	< 5	< 5	< 1	
Benzene	5	5	--	< 5	--	--	--	2	J	< 5	< 5	< 1	--	< 5	--	< 5	< 5	< 1	
Tetrachloroethene	5	5	--	< 5	--	--	--	--	6	17	45	75.2	--	< 5	--	< 5	< 5	< 1	
Inorganic Parameters (µg/L)																			
Antimony	10	30	--	< 5	2.3	--	--	< 5	NA	NA	NA	--	< 5	--	< 5	< 5	NA	NA	
Chromium	100	10	2	J	< 3	7.9	3.8	B	--	< 3	NA	NA	1	< 3	--	< 3	NA	NA	

Notes:

mg/L - milligrams per liter

µg/L - micrograms per liter

HBN - Health Based Number

PQL - Practical Quantitation Limit

* - Data presented in *RCRA Facility Investigation Report for RFI Unit 6*, dated 3 March 1995

< 5 or < 1 - Analyte not detected, value indicates detection limit

-- Not detected, detection limit not available

NA - Not analyzed

J - Analyte present, result may not be accurate or precise

B - Not detected substantially above the level reported in laboratory or field blanks

d - Sample is a duplicate of 6-MW-2